



Launch Mission Execution Forecast

Mission: Falcon 9 GPS III-4

Issued: 3 Nov 20 / 0900L (1400Z)

Valid: 5 Nov 20 /1824 – 1840L (2324 – 2340Z)



Forecast Discussion: A strong high-pressure area will remain to our north this week, creating a tight pressure gradient with Hurricane Eta to the south. This will result in persistent, breezy onshore flow along the Space Coast. Although a few low-topped light rain showers are possible Thursday over the Spaceport, the clouds will not be tall enough to be a concern other than creating a temporary increase in the already gusty winds. The primary weather concern for a Thursday evening launch attempt is Liftoff Winds.

On Friday, moisture will deepen, creating with a better chance for coastal showers. The primary weather concerns remain Liftoff Winds with the addition of the Cumulus Cloud Rule associated with the showers.

Launch Day	Probability of Violating Weather Constraints							
	30%	Primary Concerns: Liftoff Winds						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	75°F / 72%	Stratocumulus	Scattered	2,500	5,000	Booster Recovery Weather:	Low
Liftoff Winds (200'):	080° 20 - 25 mph	Cirrostratus	Scattered	30,000	32,000	Solar Activity:	Low	
24-Hour Delay	Probability of Violating Weather Constraints							
	40%	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	Isold Showers / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Moderate
	Temp/Humidity:	75°F / 72%	Cumulus	Scattered	2,500	10,000	Booster Recovery Weather:	Moderate
Liftoff Winds (200'):	080° 20 - 25 mph	Altocumulus	Broken	12,000	15,000	Solar Activity:	Low	
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.								
Next Forecast Will Be Issued		4 Nov 2020						